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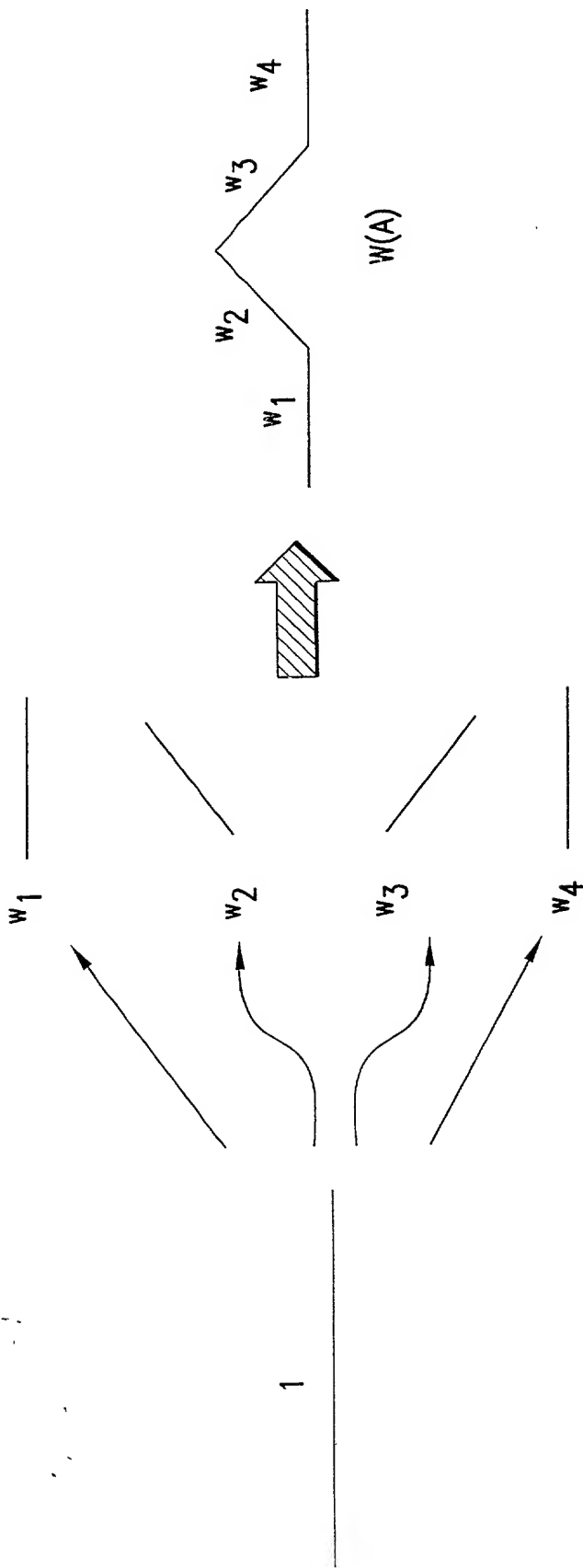


FIG.1

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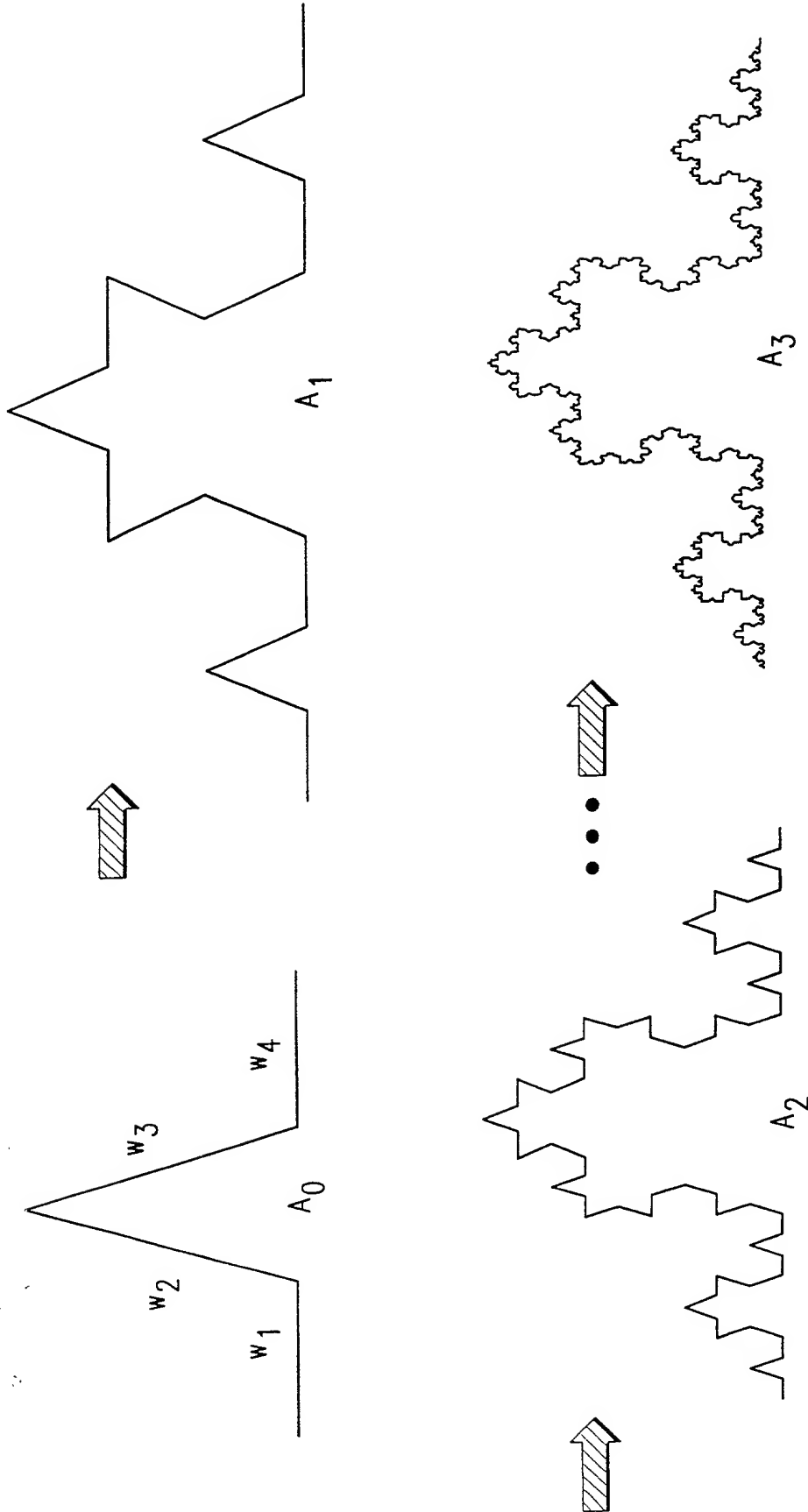


FIG. 2

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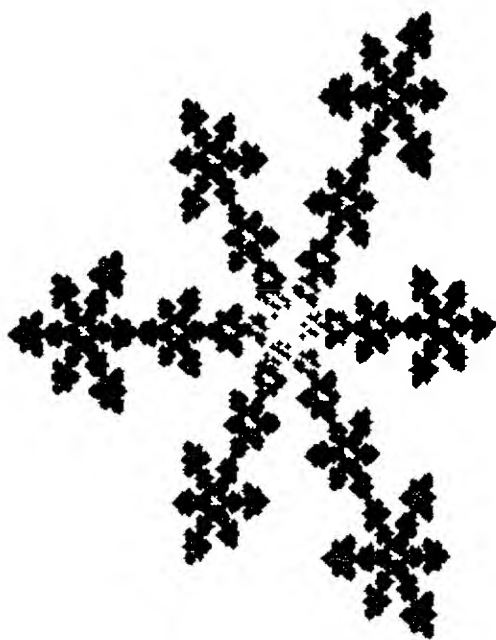


FIG. 3A

a	b	c	d	e	f
0.255	0.0	0.0	0.255	0.3726	0.6714
0.255	0.0	0.0	0.255	0.1146	0.2232
0.255	0.0	0.0	0.255	0.6306	0.2232
0.370	-0.642	0.642	0.370	0.6356	-0.0061

FIG. 3

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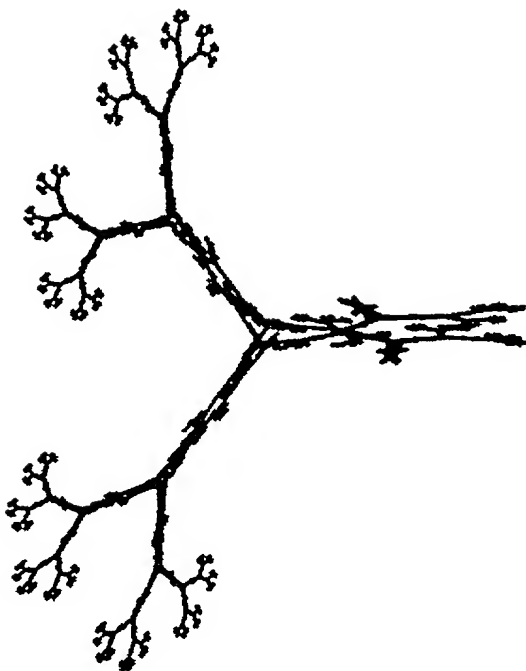


FIG.4A

a	b	c	d	e	f
0.195	-0.488	0.344	0.443	0.4431	0.2452
0.462	0.414	-0.252	0.361	0.2511	0.5692
-0.058	-0.07	0.453	-0.111	0.5976	0.0969
-0.035	0.07	-0.469	-0.022	0.4884	0.5069
-0.637	0.0	0.0	0.501	0.8562	0.2513

FIG.4

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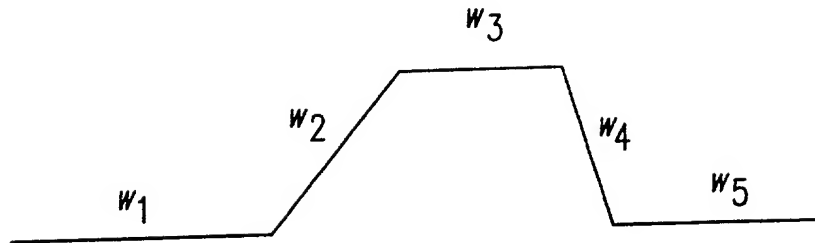


FIG. 5

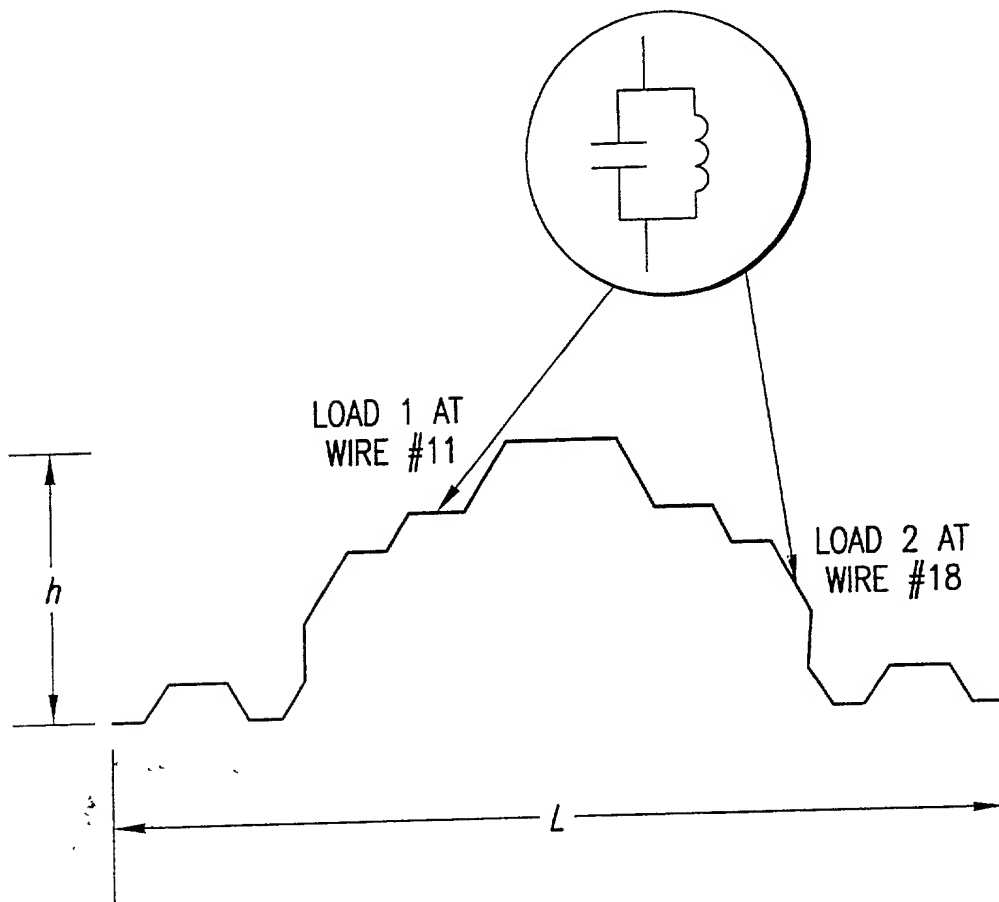


FIG. 6

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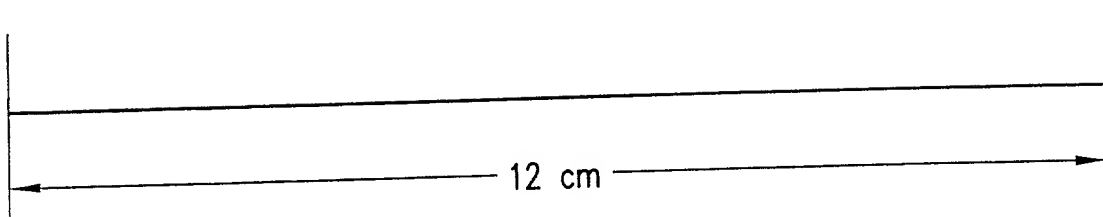


FIG. 7

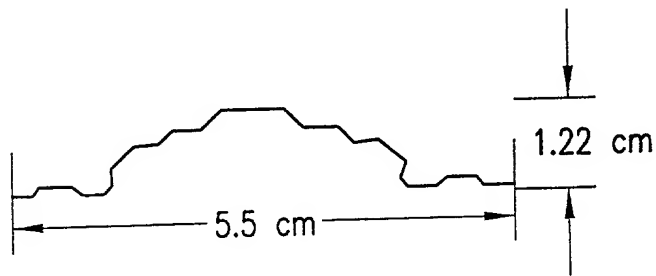


FIG. 8

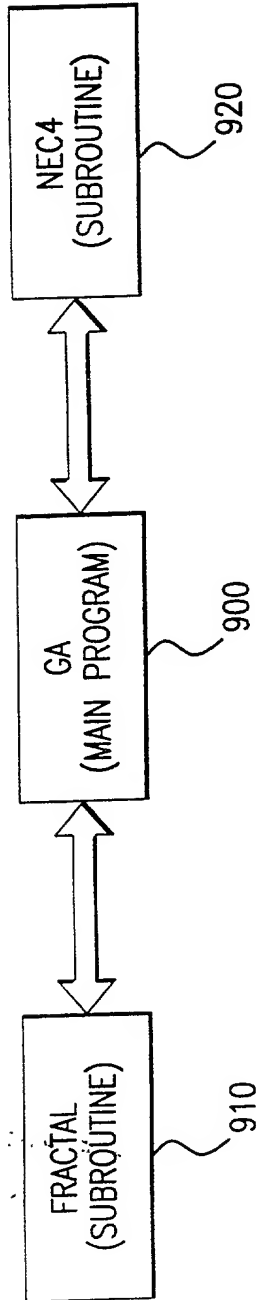


FIG. 9

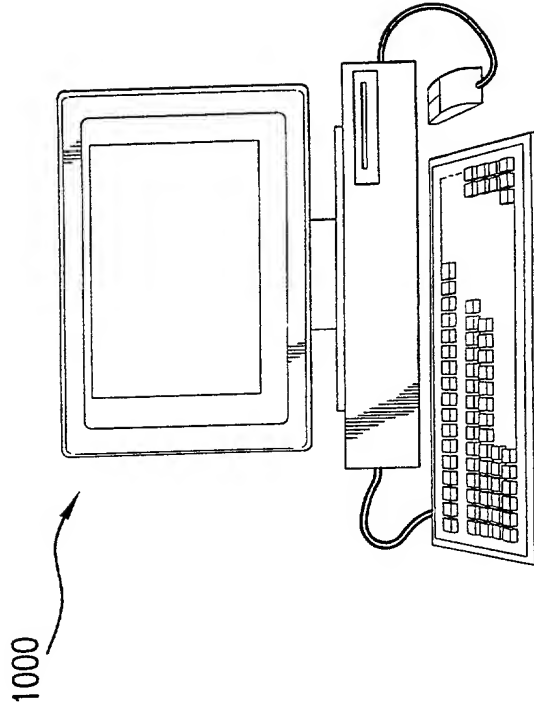


FIG. 10

LENGTH OF ANTENNA = 12 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 21  
LOAD2 ELEMENT 06

L1 = 15.81250 nH  
L2 = 17.98438 nH

C1 = 0.4849 pF  
C2 = 0.7996 pF

FREQUENCY	VSWR
1225 MHz	1.3383
1575 MHz	1.2872

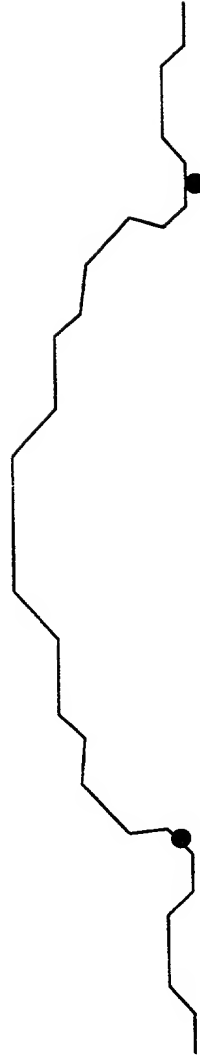


FIG.11



LENGTH OF ANTENNA = 11.5 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 21 L1 = 15.53125 nH C1 = 0.5376 pF  
LOAD2 ELEMENT 06 L2 = 17.95312 nH C2 = 0.8453 pF

FREQUENCY	VSWR
1225 MHz	1.2649
1575 MHz	1.2266

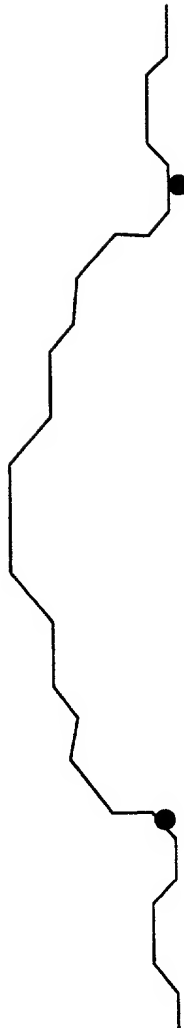


FIG.12

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LENGTH OF ANTENNA = 11.0 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 05 C1 = 0.4708 pF  
LOAD2 ELEMENT 04 L2 = 17.89062 nH C2 = 0.9648 pF

FREQUENCY	VSWR
1225 MHz	1.0738
1575 MHz	1.3285



FIG.13

LENGTH OF ANTENNA = 10.5 cm	L1 = 13.93750 nH	C1 = 0.6414 pF
LOAD LOCATIONS : LOAD1 ELEMENT 22	L2 = 18.92188 nH	C2 = 0.9050 pF
LOAD2 ELEMENT 04		

FREQUENCY	VSWR
1225 MHz	1.1249
1575 MHz	1.1205

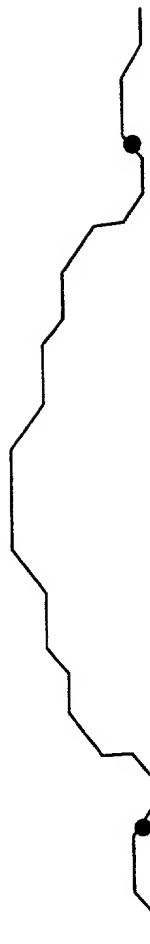


FIG. 14

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LENGTH OF ANTENNA = 10.0 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 25 L1 = 15.98438 nH C1 = 0.5746 pF  
LOAD2 ELEMENT 23 L2 = 13.39062 nH C2 = 0.6712 pF

FREQUENCY	VSWR
1225 MHz	1.1884
1575 MHz	1.1103



FIG.15

LENGTH OF ANTENNA = 9.5 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 22 L1 = 13.48438 nH C1 = 0.6941 pF  
LOAD2 ELEMENT 25 L2 = 12.09375 nH C2 = 0.1509 pF

FREQUENCY	VSWR
1225 MHz	1.0386
1575 MHz	1.1186



FIG.16

LENGTH OF ANTENNA = 9.0 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 25 L1 = 12.04688 nH C1 = 0.3302 pF  
LOAD2 ELEMENT 05 L2 = 15.43750 nH C2 = 0.6642 pF

FREQUENCY	VSWR
1225 MHz	1.0392
1575 MHz	1.1430

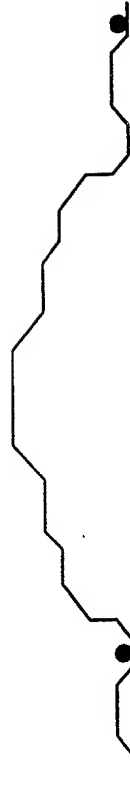


FIG. 17

LENGTH OF ANTENNA = 8.5 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 25 L1 = 18.79688 nH C1 = 0.5570 pF  
LOAD2 ELEMENT 09 L2 = 15.43750 nH C2 = 0.6853 pF

FREQUENCY	VSWR
1225 MHz	1.1235
1575 MHz	1.0224

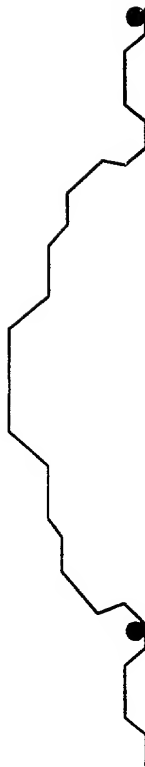


FIG.18

LENGTH OF ANTENNA = 8.0 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 04 L1 = 13.42188 nH C1 = 0.1457 pF  
LOAD2 ELEMENT 04 L2 = 16.15625 nH C2 = 0.7644 pF

FREQUENCY	VSWR
1225 MHz	1.1432
1575 MHz	1.0470



FIG.19



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LENGTH OF ANTENNA = 7.5 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 04 L1 = 13.50000 nH C1 = 0.3671 pF  
LOAD2 ELEMENT 25 L2 = 18.35938 nH C2 = 0.8910 pF

FREQUENCY	VSWR
1225 MHz	1.0453
1575 MHz	1.1628



FIG.20

LENGTH OF ANTENNA = 7.0 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 23 L1 = 17.95312 nH C1 = 0.8119 pF  
LOAD2 ELEMENT 19 L2 = 19.50000 nH C2 = 0.1017 pF

FREQUENCY	VSWR
1225 MHz	1.3338
1575 MHz	1.1024

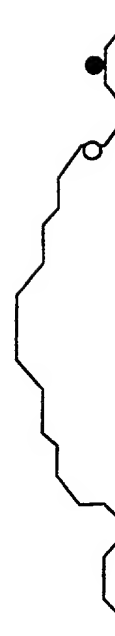


FIG.21

LENGTH OF ANTENNA = 6.5 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 22 L1 = 16.10938 nH C1 = 0.8962 pF  
LOAD2 ELEMENT 12 L2 = 13.01562 nH C2 = 0.2107 pF

FREQUENCY	VSWR
1225 MHz	1.6677
1575 MHz	1.4982



FIG.22

LENGTH OF ANTENNA = 6.0 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 22 L1 = 16.35938 nH C1 = 0.8962 pF  
LOAD2 ELEMENT 09 L2 = 16.12500 nH C2 = 0.3214 pF

FREQUENCY	VSWR
1225 MHz	1.6956
1575 MHz	1.4979



FIG.23

LENGTH OF ANTENNA = 5.5 cm  
LOAD LOCATIONS : LOAD1 ELEMENT 22 L1 = 15.86914 nH C1 = 0.9308 pF  
LOAD2 ELEMENT 16 L2 = 12.51172 nH C2 = 0.5371 pF

FREQUENCY	VSWR
1225 MHz	1.9413
1575 MHz	1.7861

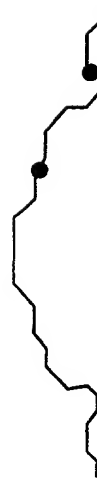


FIG.24

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VSWR  
3.8461  
147.6503

FREQUENCY  
1225  
1575

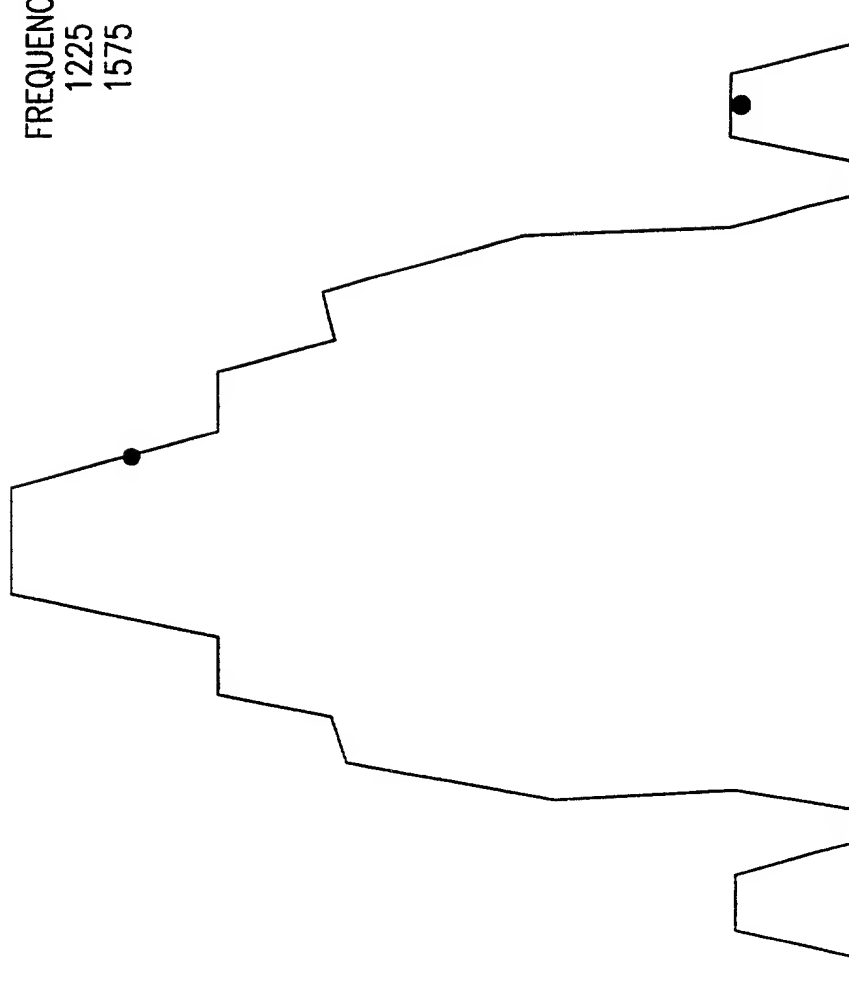


FIG.25

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VSWR  
7.7811  
34.0082

FREQUENCY  
1225  
1575

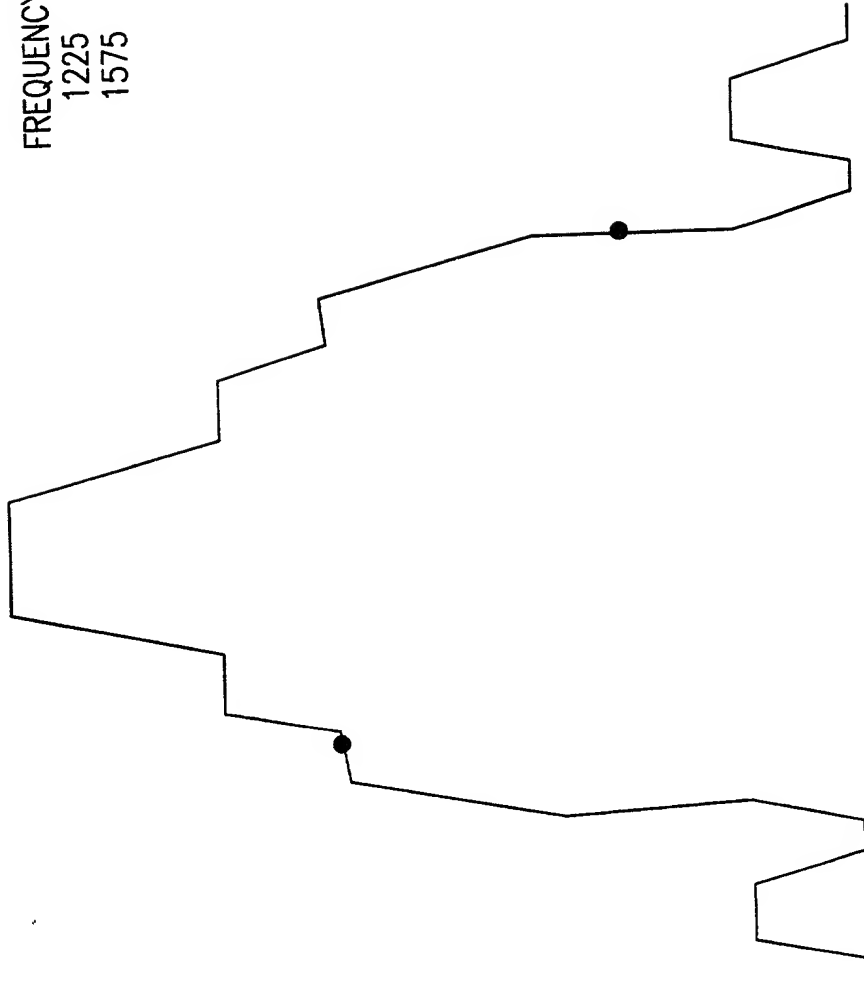


FIG.26

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VSWR  
6.2696  
37.7545

FREQUENCY  
1225  
1575

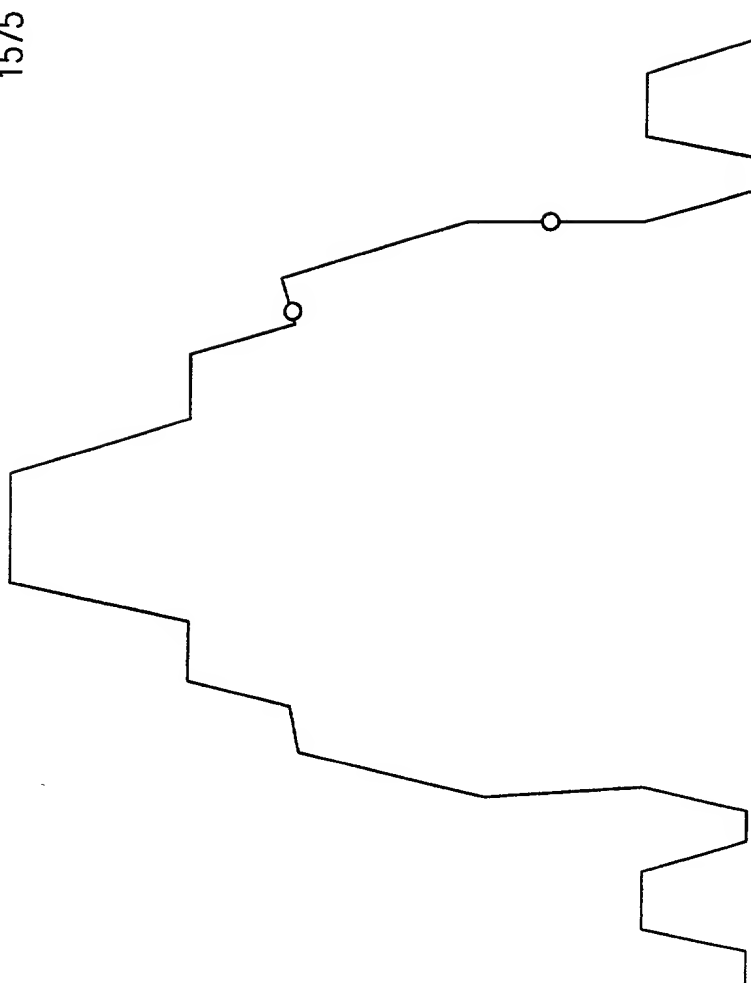


FIG.27



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VSWR  
5.6053  
34.3092

FREQUENCY  
1225  
1575

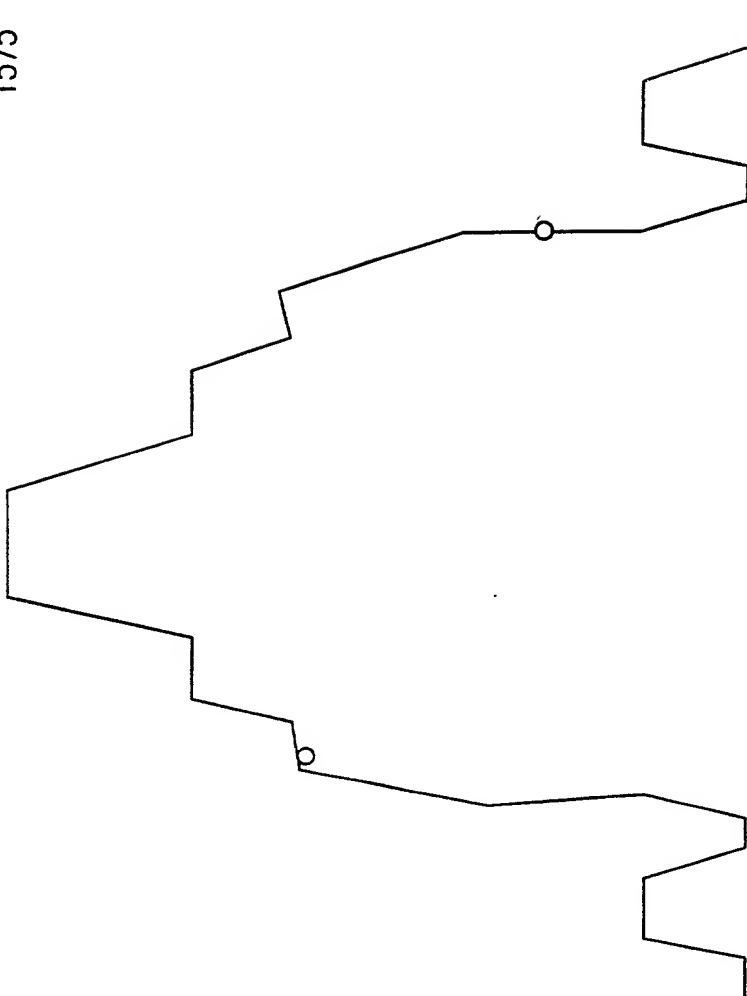


FIG.28

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VSWR  
5.5536  
34.3092

FREQUENCY  
1225  
1575

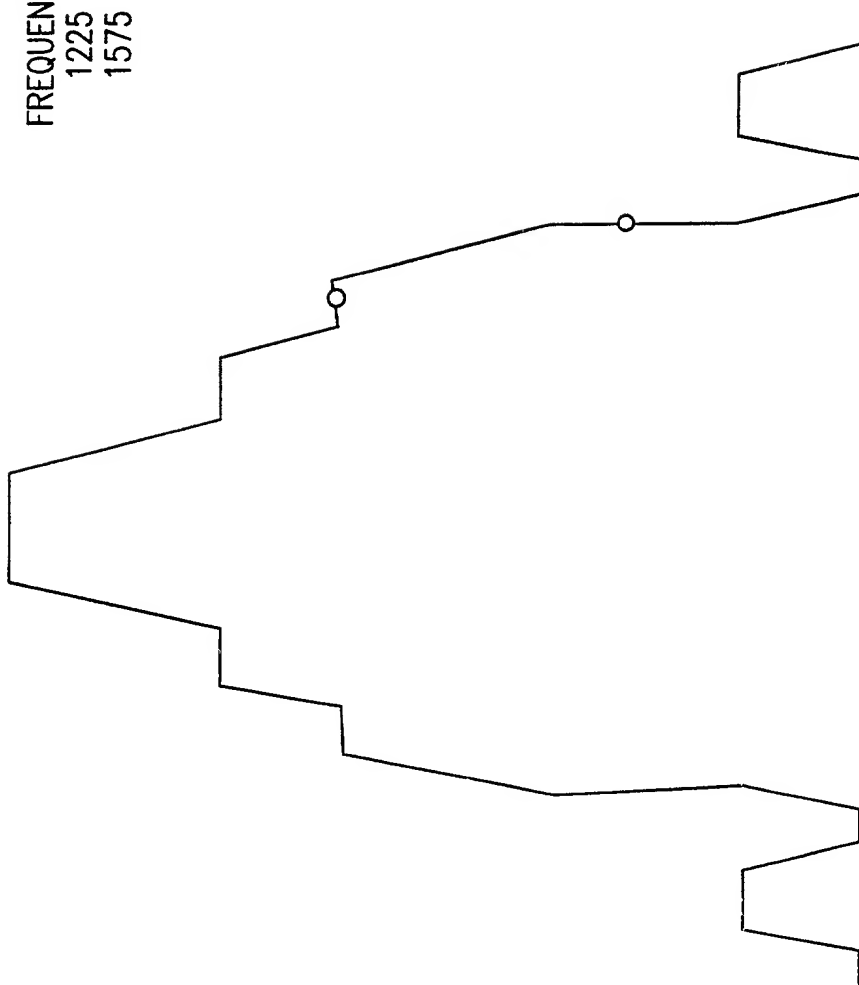


FIG.29

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VSWR  
3.9846  
30.16798

FREQUENCY  
1225  
1575

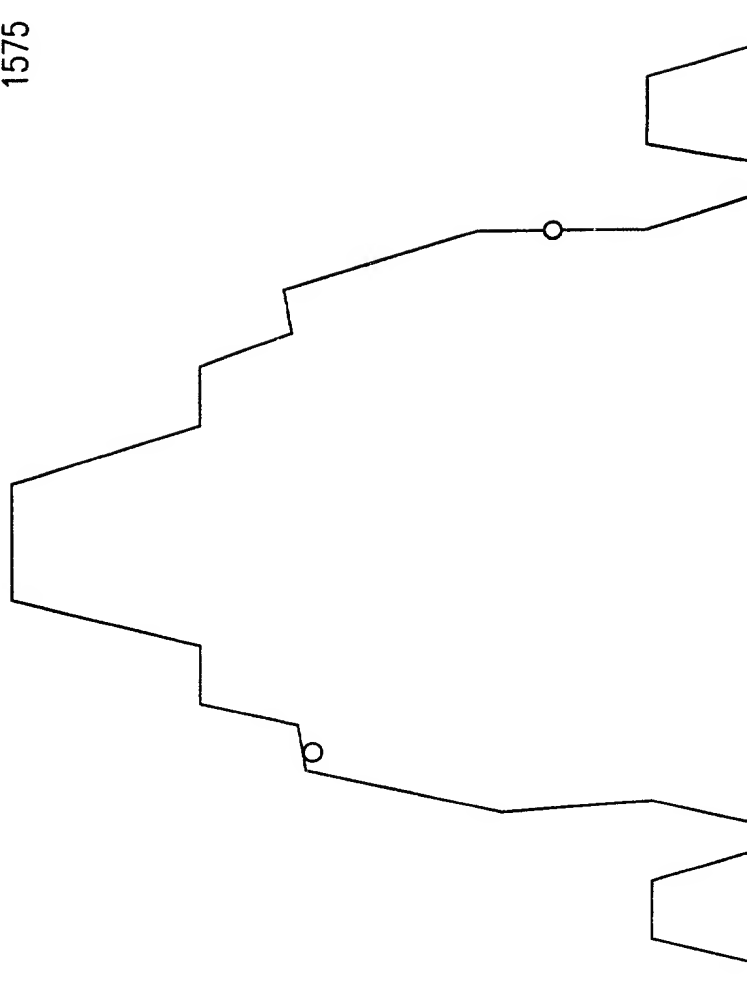


FIG.30

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VSWR  
 5.0477  
 4.1741

FREQUENCY  
 1225  
 1575

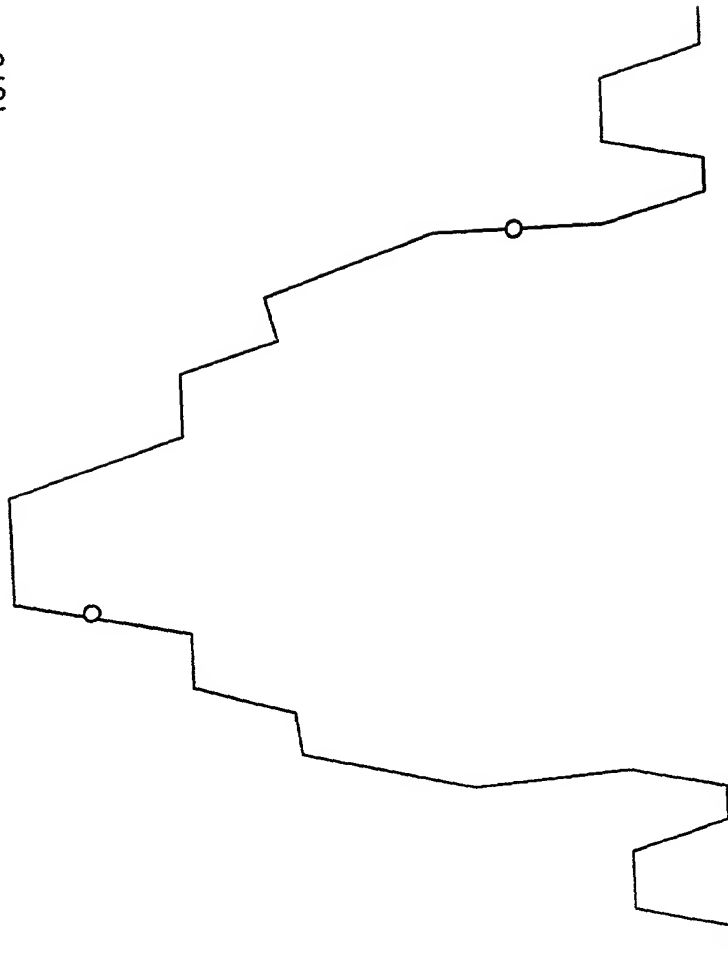


FIG.31

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VSWR  
1.8738  
9.9798

FREQUENCY  
1225  
1575

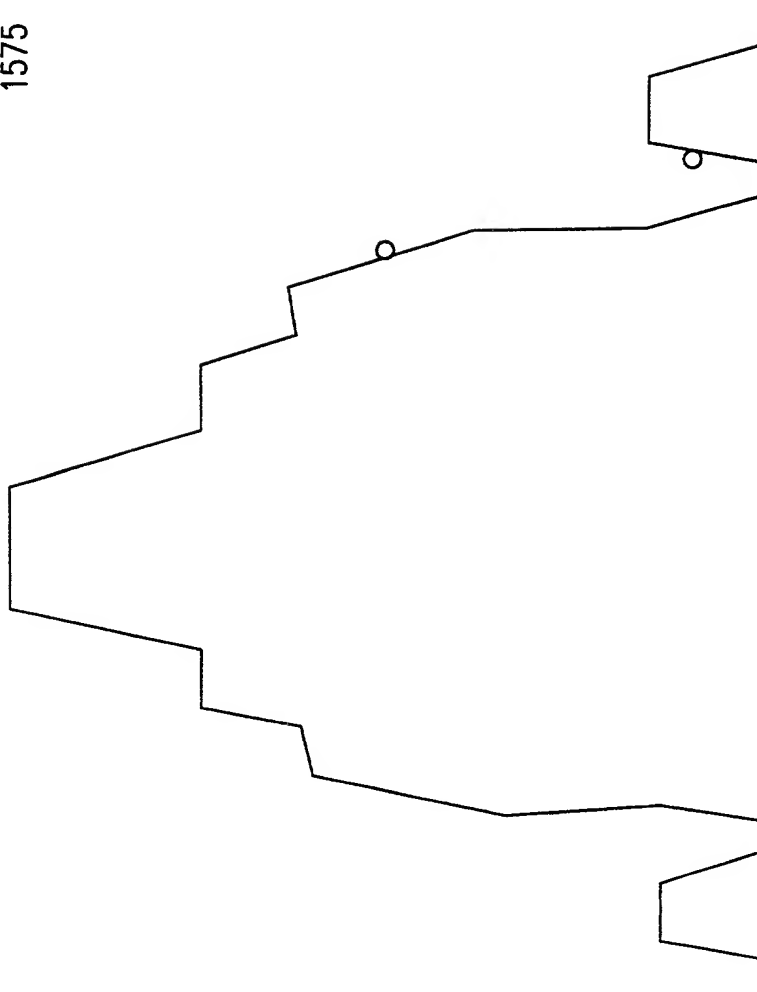


FIG.32

FREQUENCY  
1225  
1575

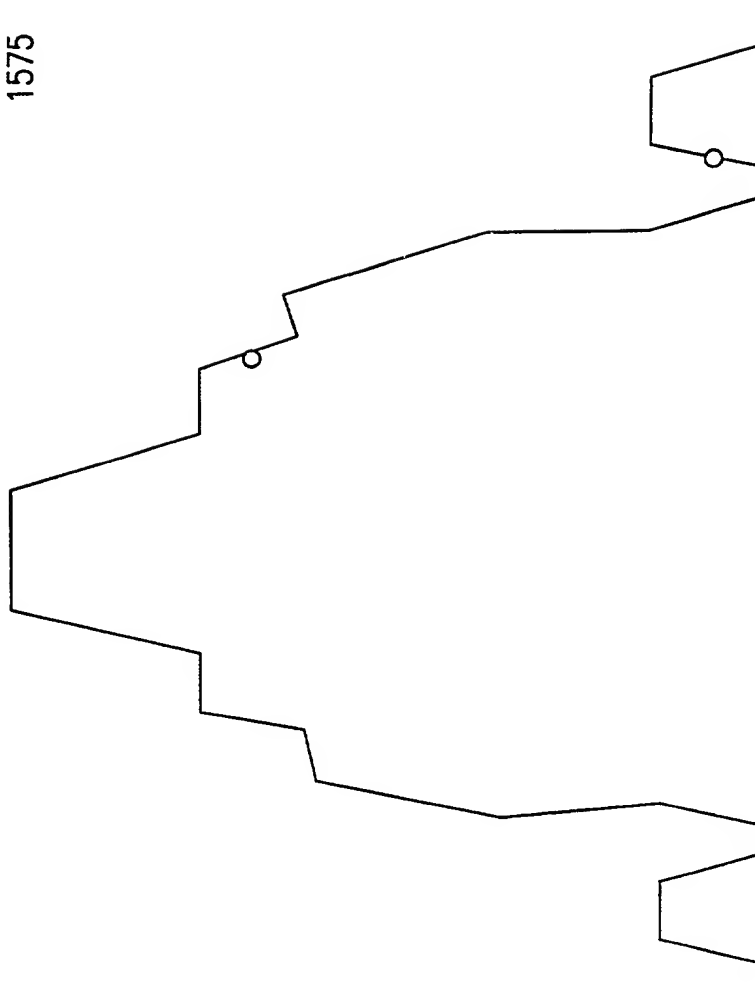


FIG. 33

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VSWR  
1.9578  
1.7579

FREQUENCY  
1225  
1575

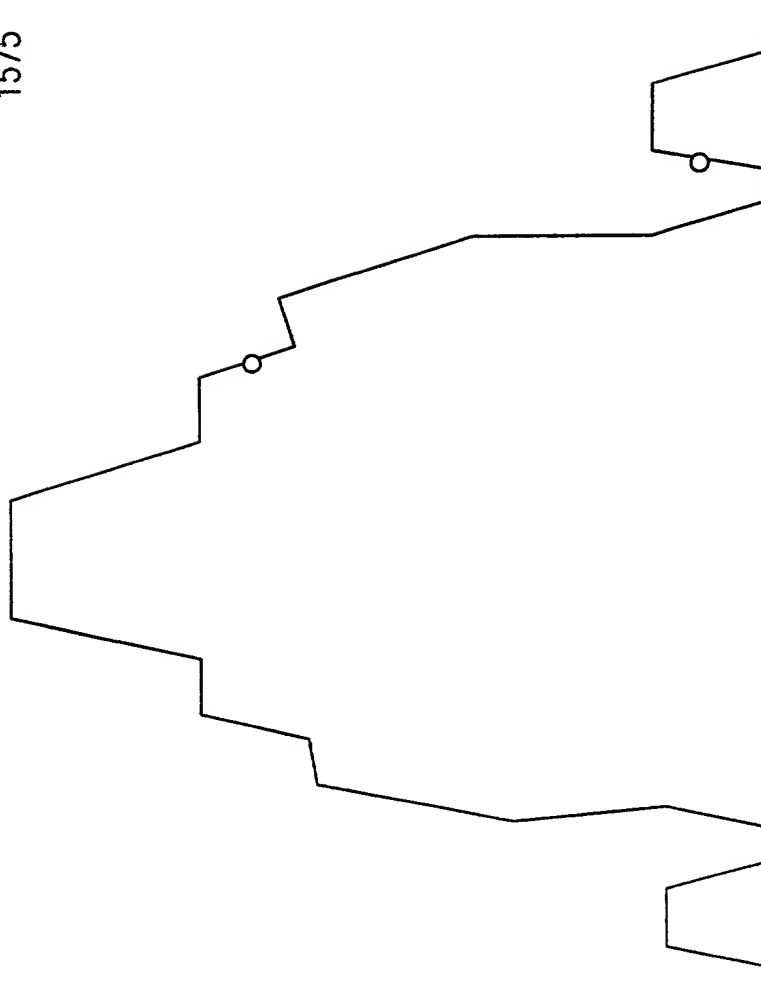


FIG. 34

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VSWR  
1.9486  
1.7735

FREQUENCY  
1225  
1575

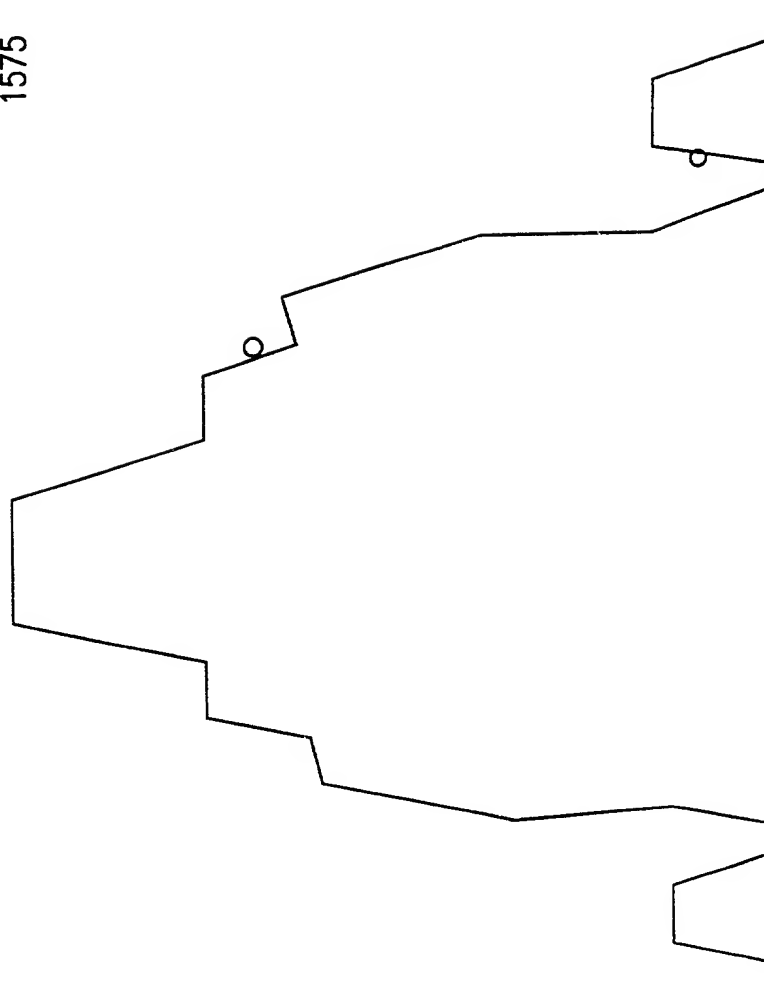


FIG.35



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VSWR  
1.9453  
1.7947

FREQUENCY  
1225  
1575

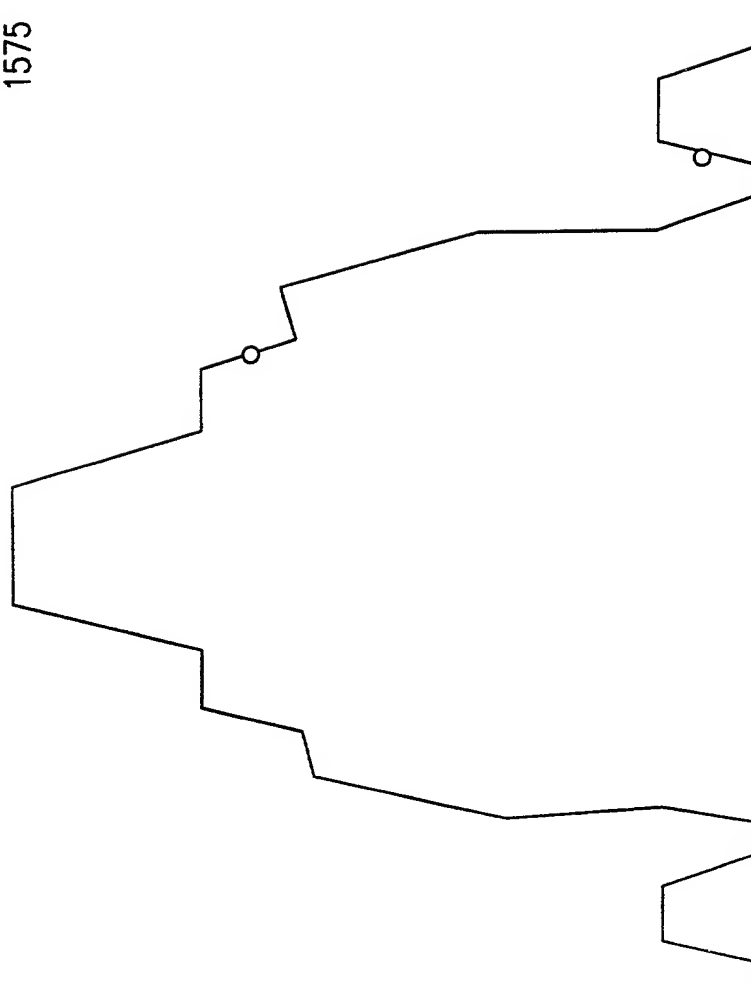


FIG.36

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VSWR  
1.9415  
1.7904

FREQUENCY  
1225  
1575

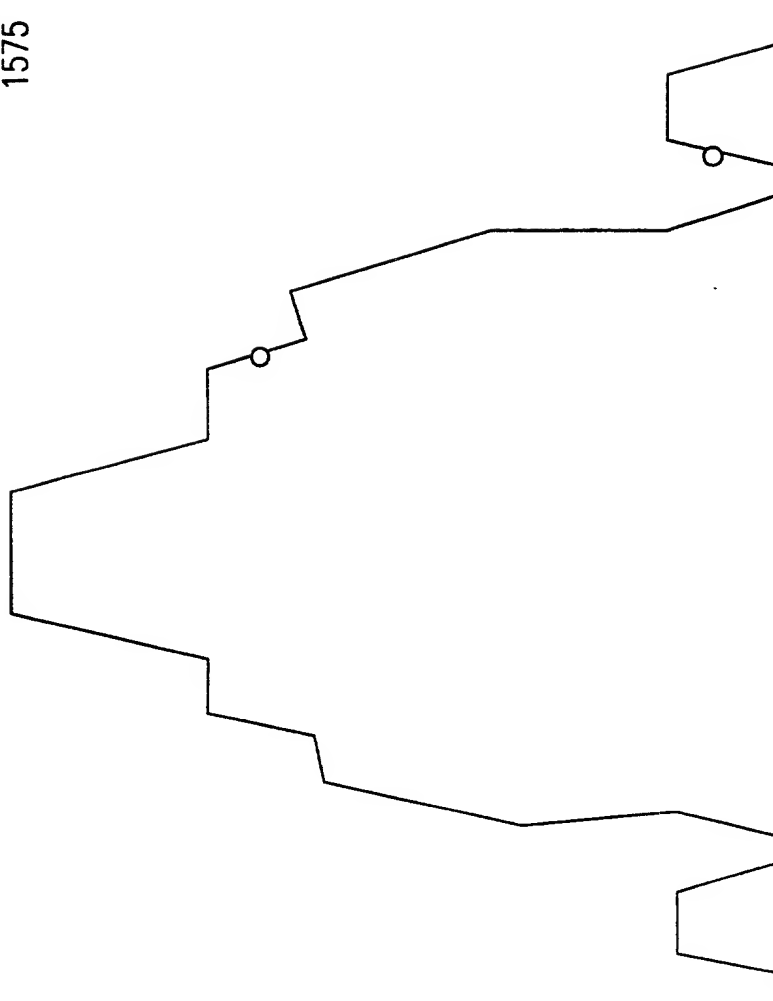


FIG.37

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VSWR  
1.9413  
1.7861

FREQUENCY  
1225  
1575

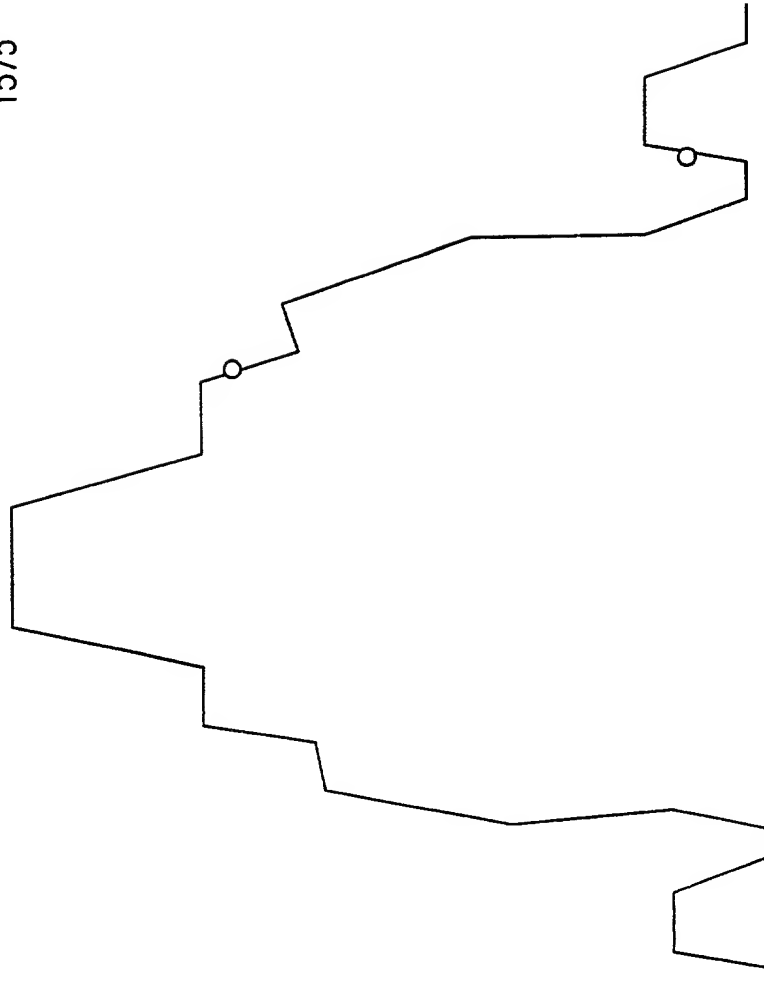


FIG.38

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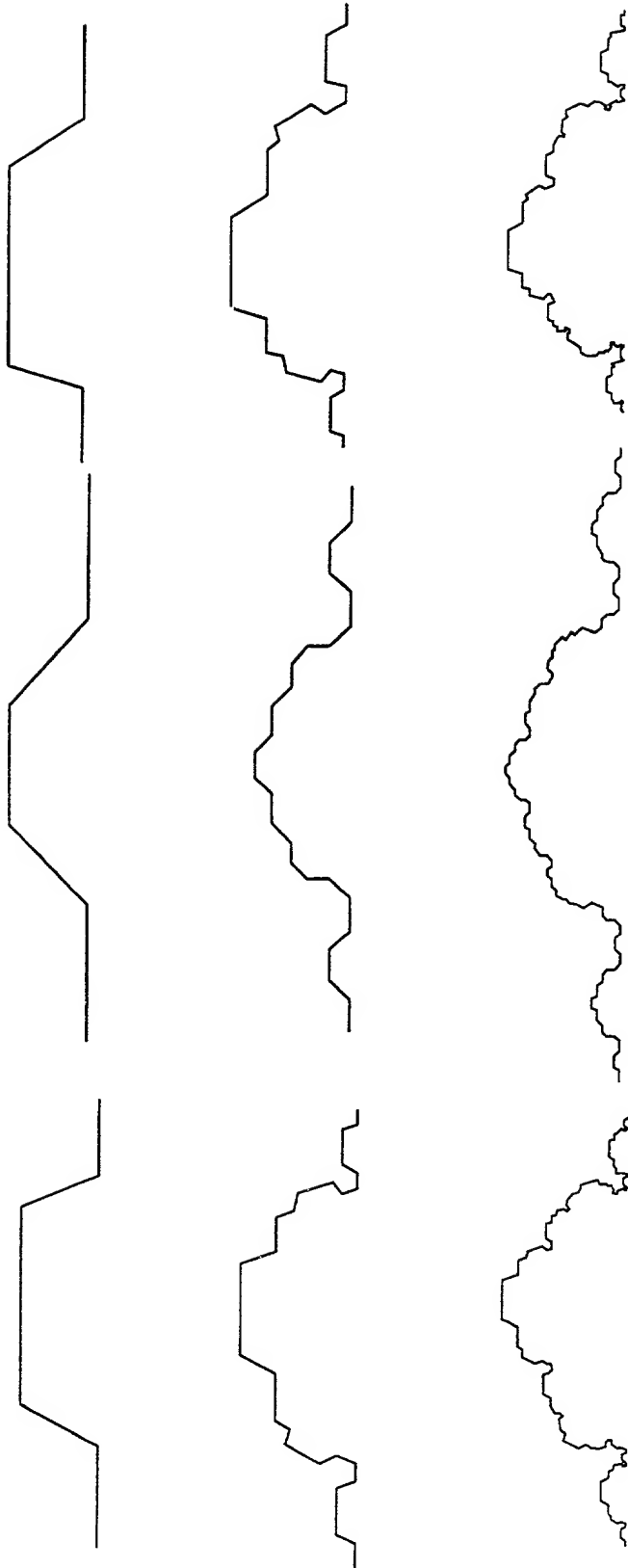


FIG.39

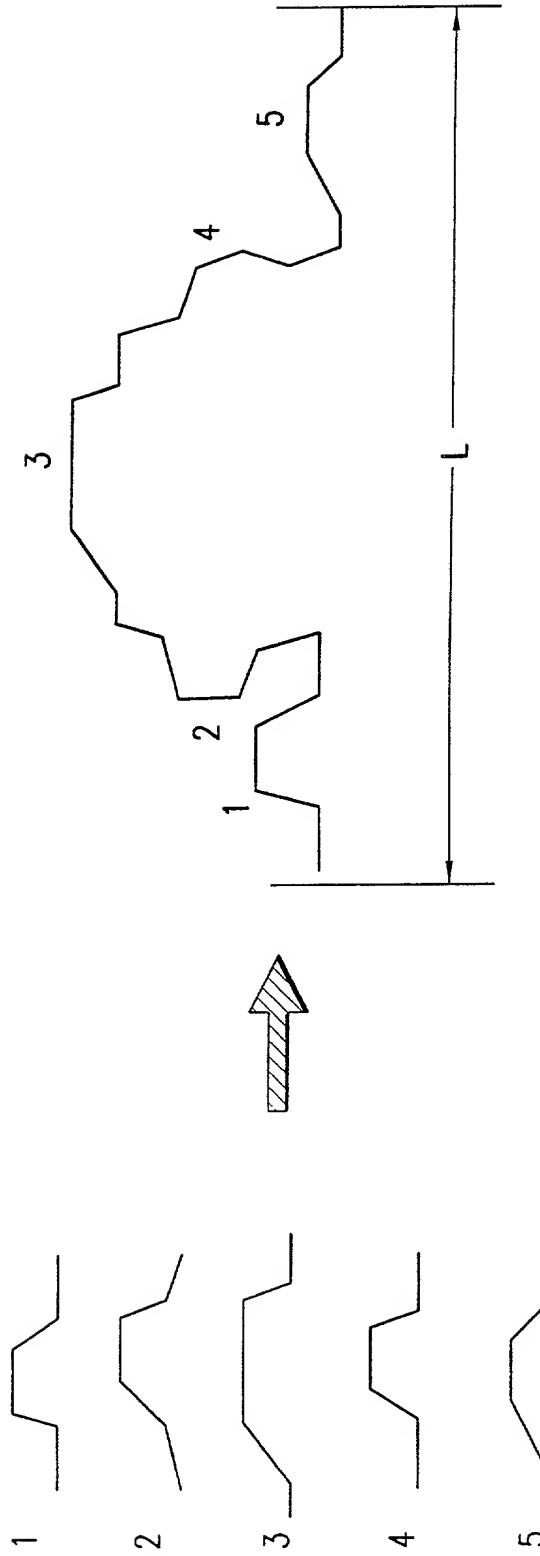


FIG.40

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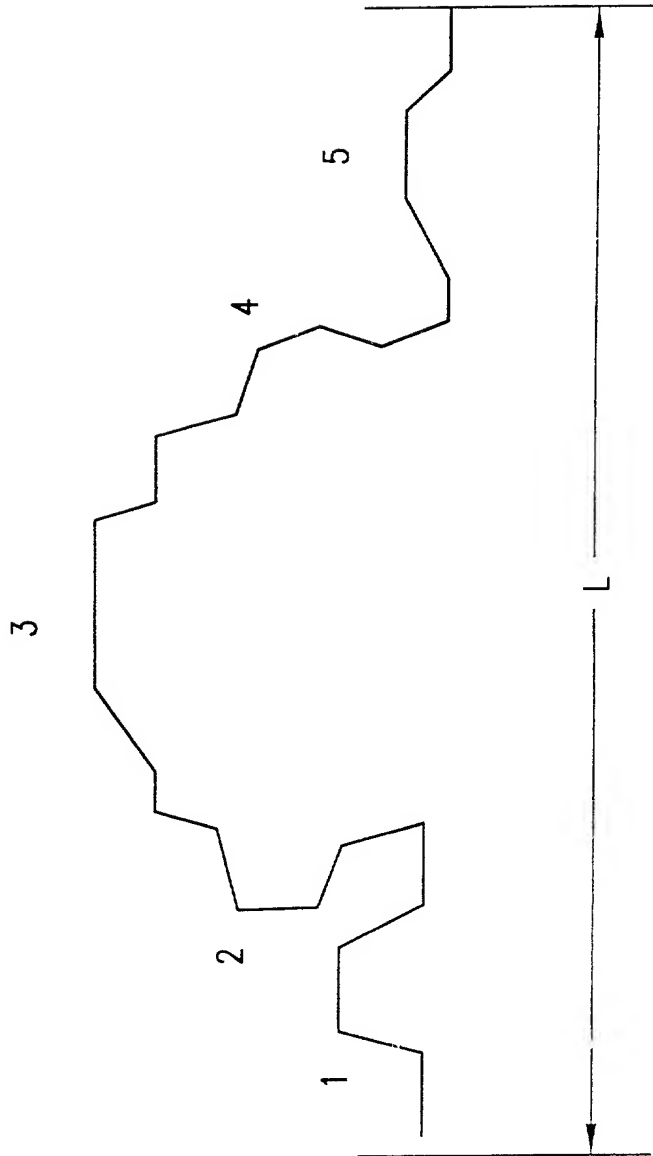
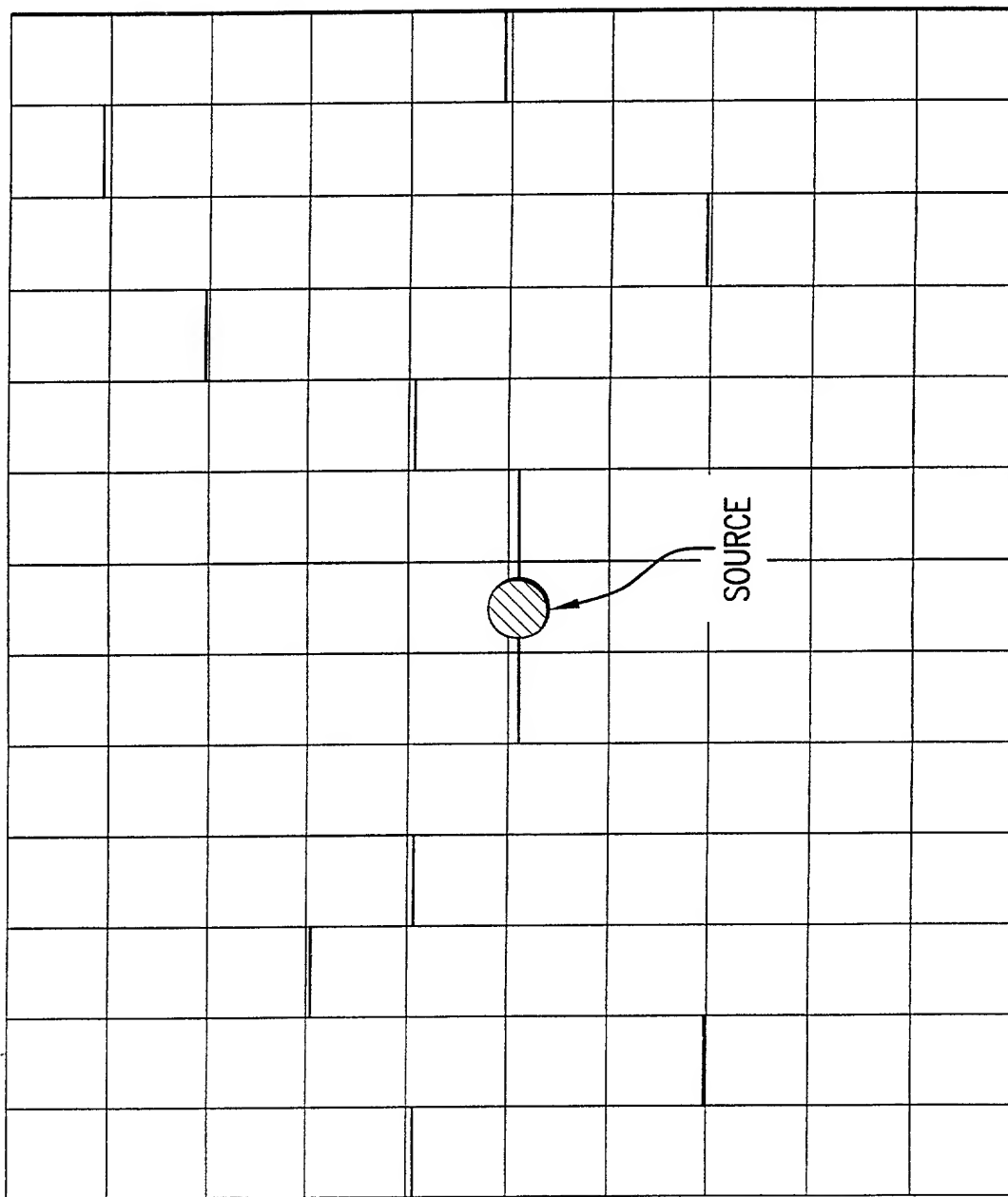


FIG. 41

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FIG. 42



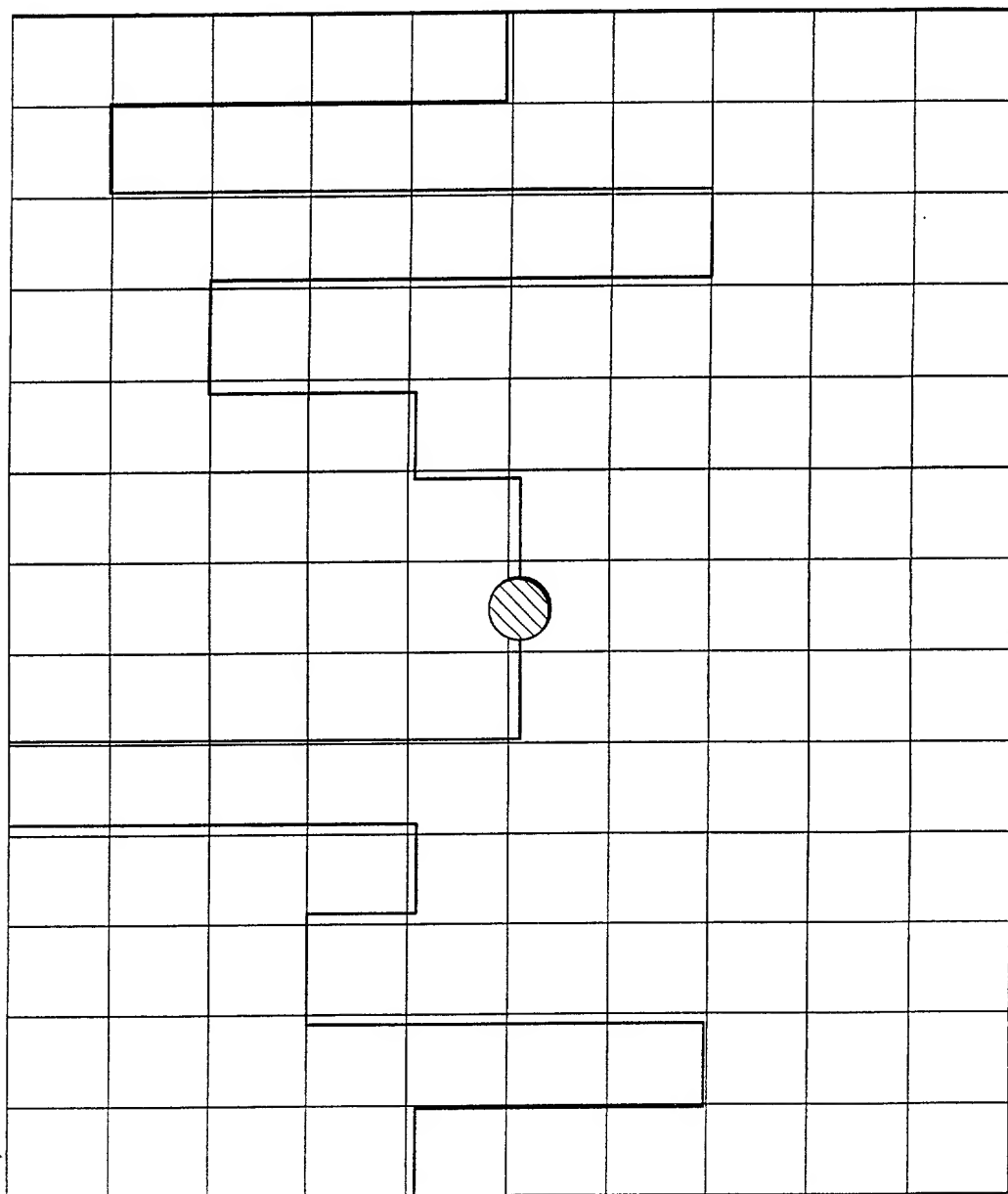
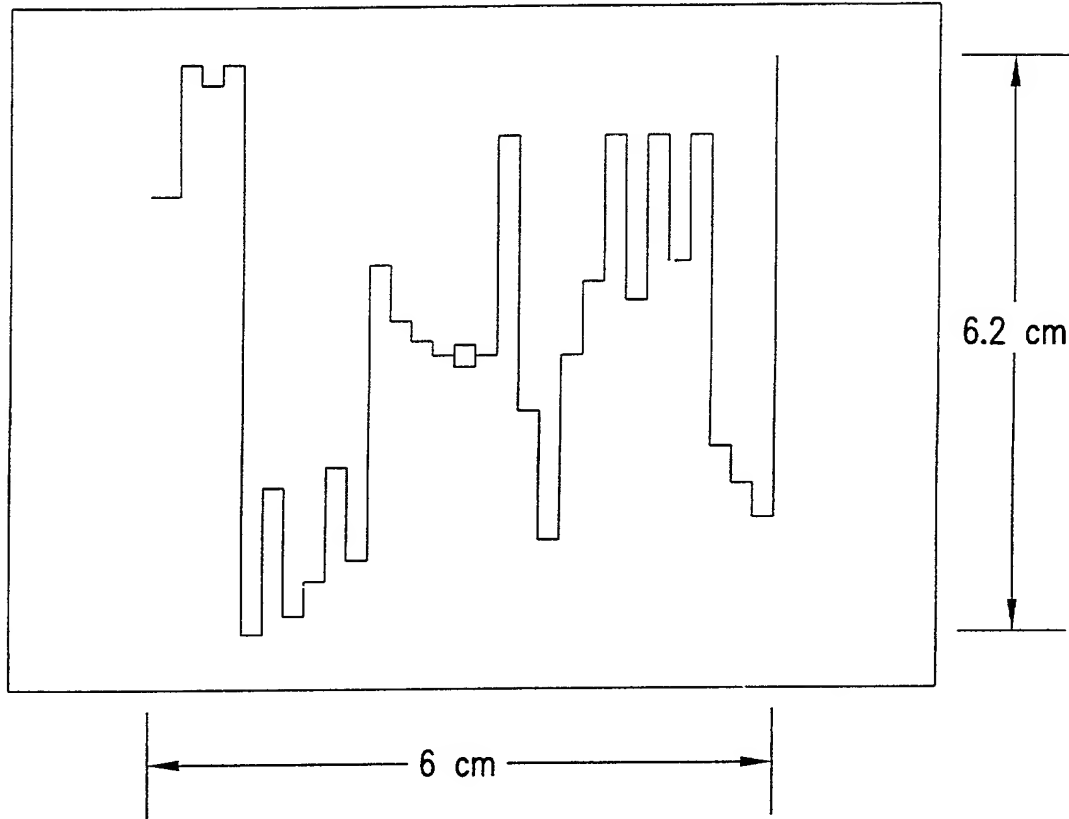


FIG. 43



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FREQUENCY (MHz)	VSWR	ZIN	GAIN
1225.0	1.579067	(32.47140,-6.125150)	2.030
1575.0	1.262626	(39.63660,-0.9270540)	2.610

FIG.44

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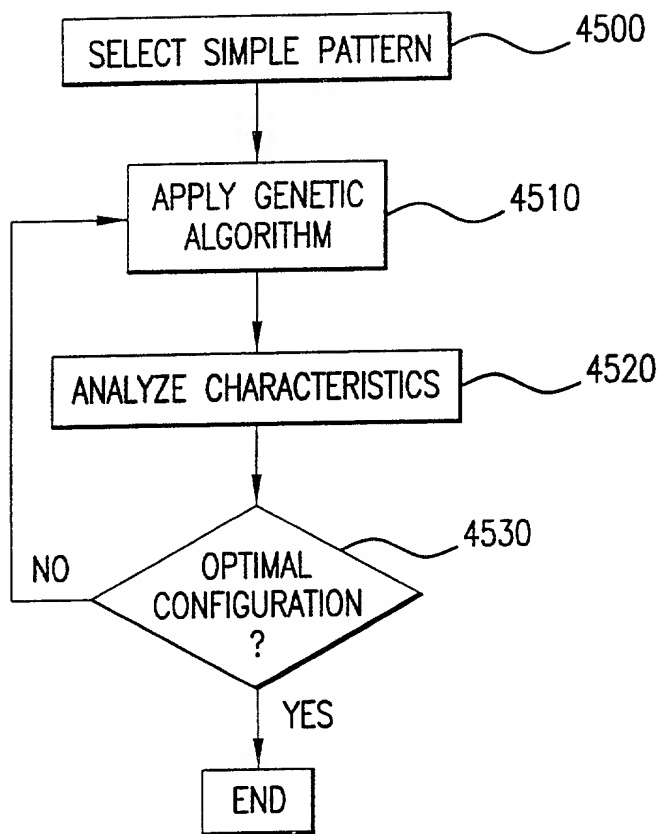


FIG.45

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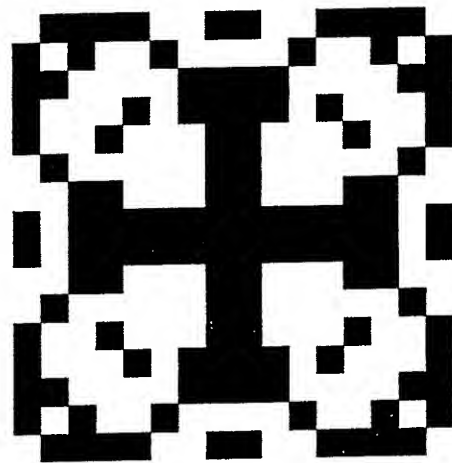


FIG.46

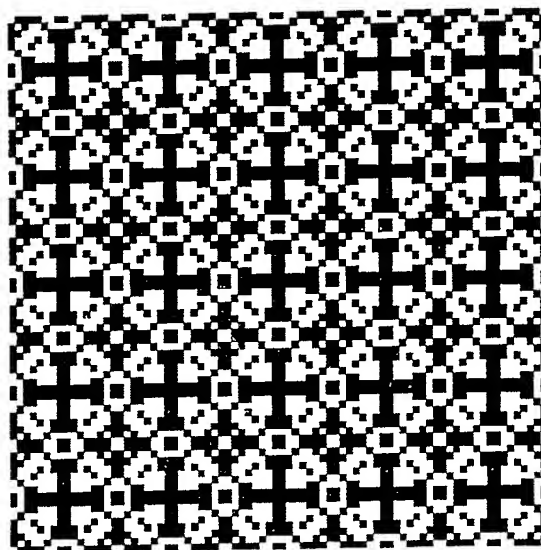


FIG.47